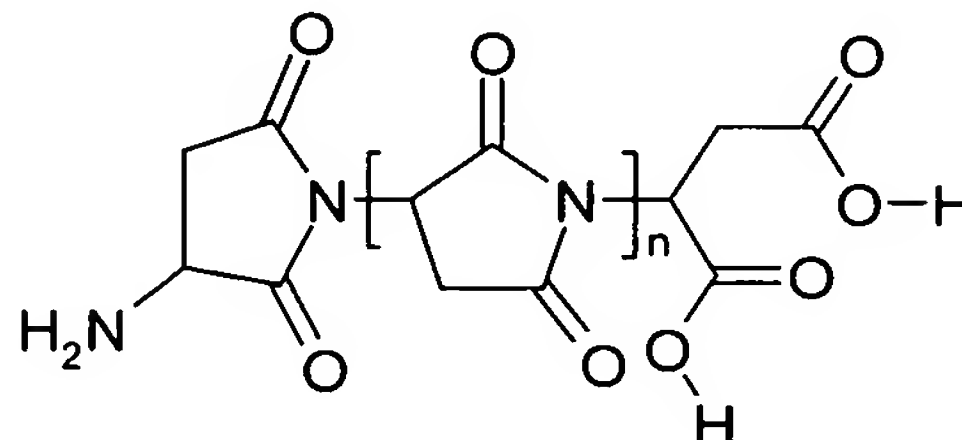


Amendments to the Claims:

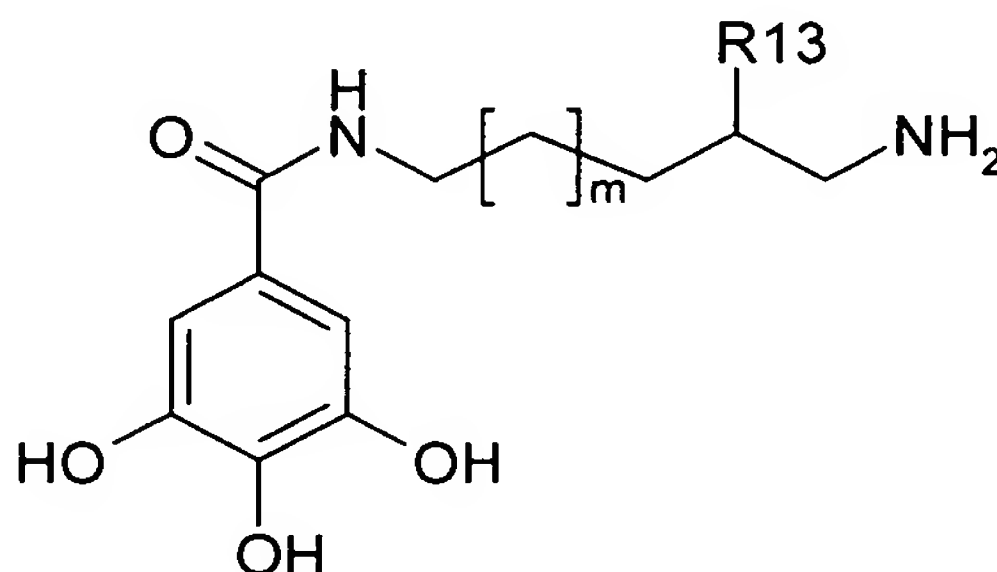
This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (original) A lapping composition formed by mixing in water an acid selected from the group consisting of citric acid, glycolic acid, tartaric acid, and gallic acid, and a base selected from the group consisting of monoethanolamine, triethanolamine, diglycolamine, guanidine, choline, and potassium hydroxide.
2. (original) The composition of claim 1, further comprising poly sodium aspartate.
3. (original) The composition of claim 1, further comprising poly sodium aspartate-co-diglycol aspartamide.
4. (original) A composition useful for removing swarf from the surface of a ceramic and/or metallic object while that surface is being lapped, wherein said composition is formed by adding to gallic acid in water a base selected from the group consisting of monoethanolamine, potassium hydroxide, and triethanolamine.
5. (original) A lapping composition formed by adding to a polysuccinimide having structure



a gallamide having the structure



wherein n is between 5 and 30 and wherein m is greater than or equal to 1 and less than or

equal to about 10, and wherein R13 is selected from the group consisting of hydrogen, alkyl, oxyalkyl, phenyl, and oxyphenyl.

6. (original) The lapping composition of claim 5, wherein said polysuccinimide has a molecular weight of about 3,000 Daltons.

7. (cancel)

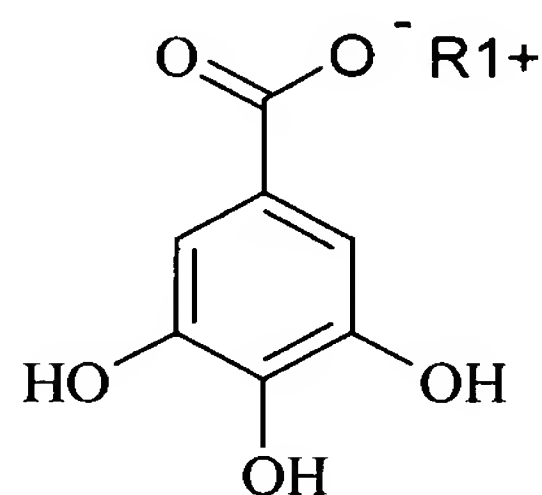
8. (cancel)

9. (cancel)

10. (cancel)

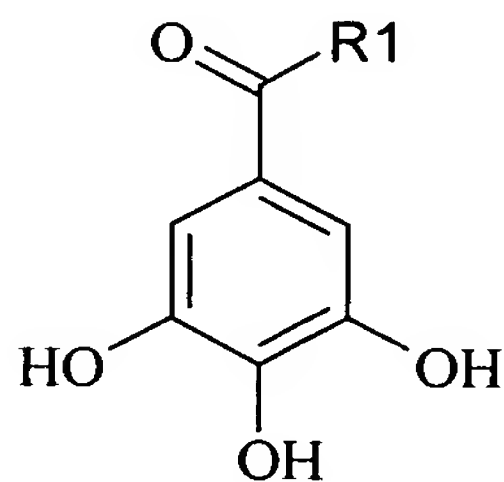
11. (cancel)

~~11.~~ 12. (currently amended) A lapping composition comprising a salt having the structure



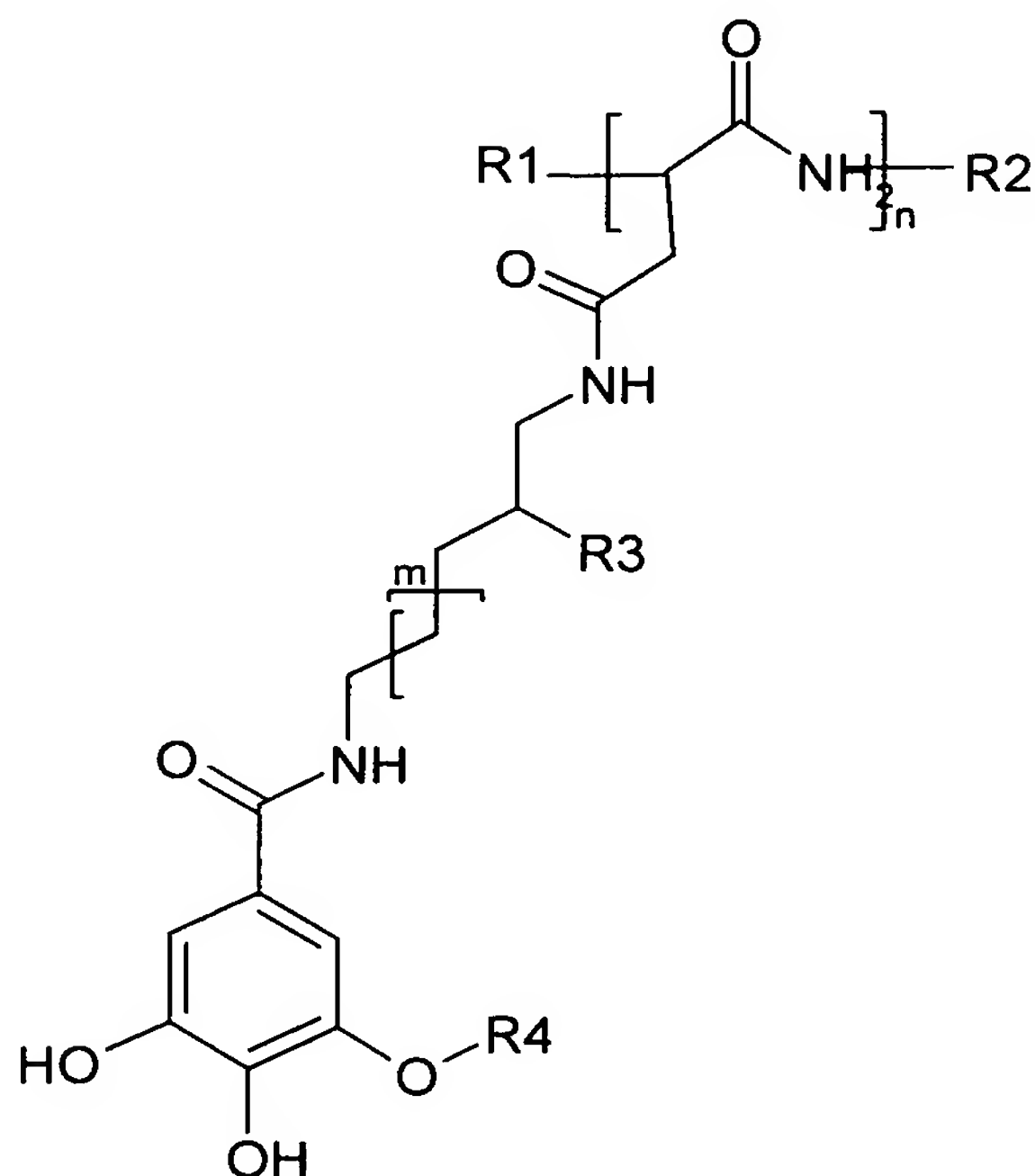
wherein R1+ is selected from the group consisting of an alkali metal cation, an alkaline earth cation, a diglycolammonium cation, a monoethanolammonium cation, a triethanolammonium cation, a tetramethylammonium cation, a guanidinium cation, and a choline cation.

~~12.~~ 13. (currently amended) A lapping composition comprising a compound having the structure



wherein R1 is selected from the group consisting of OH and N(R2)(R3), wherein R2 and R3 are each selected from the group consisting of alkyl and phenyl.

~~13.~~ 14. (currently amended) A lapping composition comprising a polymeric substituted gallamide having the structure



wherein R1 is selected from the group consisting of alkyl, aryl, succinimide, aspartic acid, and aspartate salt, and wherein R2 is selected from the group consisting of alkyl, aryl, succinimide, aspartic acid, and aspartate salt, and wherein n is between 1 and 5000, and wherein m is greater than or equal to 1 and less than or equal to about 10, and wherein R3 is selected from the group consisting of hydrogen, alkyl, oxyalkyl, phenyl, and oxyphenyl, and wherein R4 is selected from the group consisting of hydrogen, methyl, and $-\text{CH}_2\text{-COOH}$.

~~14.~~ 15. (cancel)

~~15.~~ 16. (cancel)

~~16.~~ 17. (currently amended) A method to shape the surface of a substrate, comprising the steps of:

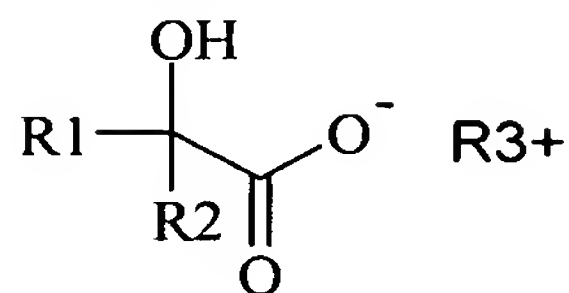
providing a substrate, wherein said substrate comprises a target surface, wherein that target surface comprises a metal surface, a ceramic surface, or a combination thereof;

providing one or more abrasives;

providing a lapping composition;

contacting said target surface with said one or more abrasives while contacting said target surface with said lapping composition;

wherein said lapping composition comprises a salt having the structure



wherein R1 is selected from the group consisting of hydrogen, methyl, and $\text{CH}_2\text{-CO}_2^- \text{R4}^+$, and wherein R2 is selected from the group consisting of hydrogen, $\text{CH}_2\text{-CO}_2^- \text{R5}^+$, and $\text{C(H)(OH)-CO}_2^- \text{R6}^+$, and wherein R3^+ , R4^+ , R5^+ , and R6^+ , are each selected from the group consisting of an alkali metal cation, an alkaline earth cation, a diglycolammonium cation, a monoethanolammonium cation, a triethanolammonium cation, a tetramethylammonium cation, a guanidinium cation, and a choline cation.

~~17.~~ 18. (cancel)

~~18.~~ 19. (cancel)

~~19.~~ 20. (cancel)

~~20.~~ 21. (cancel)

~~21.~~ 22. (currently amended) A method to shape the surface of a substrate, comprising the steps of:

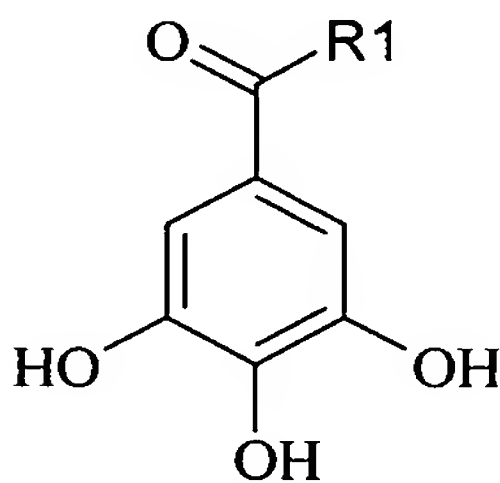
providing a substrate, wherein said substrate comprises a target surface, wherein that target surface comprises a metal surface, a ceramic surface, or a combination thereof;

providing one or more abrasives;

providing a lapping composition;

contacting said target surface with said one or more abrasives while contacting said target surface with said lapping composition;

wherein said lapping composition comprises a compound having the structure



wherein R1 is selected from the group consisting of OH and N(R2)(R3) , wherein R2 and R3 are each selected from the group consisting of alkyl and phenyl.

~~22.~~ 23. (cancel)

~~23.~~ 24. (cancel)

~~24.~~ 25. (cancel)

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